



Artificial Intelligence in Thoracic Oncology

From Problem to Solution

Trieste 25th-26th May 2026



INTRODUCTION

This is an interdisciplinary event dedicated to the integration of artificial intelligence in thoracic oncology. The meeting brings together experts from various fields to address key topics such as early diagnosis, AI-guided surgery, precision medicine, ethical implications, and the use of AI in clinical departments and patient follow-up. International speakers contribute global perspectives and cutting-edge expertise, highlighting the clinical relevance of adopting AI in thoracic oncology. It is a gathering of specialists from very different disciplines, aiming to explain how AI is transforming therapeutic and organizational approaches in thoracic cancer care, paving the way for a new paradigm.

25th MAY – AFTERNOON

12.30 - 13.15 REGISTRATION

13.15 - 13.30 WELCOME ADDRESS

13.30 - 15.50 SESSION 1

Early diagnosis and staging of lung cancer: from problem to solution with AI

Chair: M. Cortale (Trieste)

Moderators: P.L. Filosso (Modena) – M. Benvenuti (Brescia) - C. Spagno (Trieste) - F. Zanconati (Trieste)

Keynote lecture

13.30-14.00 Advances in Peripheral Bronchoscopy: The New Era of Robotics, AI, and 3D Image Guidance

Speaker: R. Casal – 

14.00-14.20 AI-powered lung cancer screening: efficiency, limitations and clinical impact

Speaker: E. Baratella (Trieste)

14.20-14.40 From biopsy to operating room: how AI-guided CT planning informs surgical decisions

Speaker: D. Tosi (Pietra Ligure, SV)

14.40-15.00 AI-assisted ROSE (Rapid On-Site Evaluation): sample optimization and faster decision-making

Speaker: J. Guarize (Milano)

15.00-15.20 Early diagnosis, staging, and digital biomarkers in lung cancer: how AI is redefining the landscape

Speaker: N. Fusco (Milano)

15.20-15.50 Discussion: P. Scanagatta (Lecco) – P. Ferrari (Cagliari) - J. Vannucci (Roma) - P. Geri (Trieste)

15.50 -16.20 COFFEE BREAK

16.20 - 18.20 SESSION 2


Implementation, regulatory, and ethical aspects of AI in thoracic oncology

Chair: A. Terminella (Catania)

Moderators: S. Lovadina (Trieste) – G. Aprile (Udine)

Keynote lecture

16.20-16.50 **Real-world AI: clinical adoption experiences from major oncology centers**

Speaker: TBD – 

16.50-17.10 **Integrating AI in hospital workflows: challenges, models, and professional outlook**

Speaker: A. Palleschi (Milano)

17.10-17.30 **Clinicians' Attitudes Toward AI-Driven Decision Support Systems in the Care for Respiratory Disease: Findings from the EU-Funded AI4Lungs Project**

Speaker: M. Meregaglia (Milano)

17.30-17.50 **Ethics of AI in medicine: between alien intelligence and human responsibility**

Speaker: R. Crisci (L'Aquila)

17.50-18.20 **Discussion:** M. Infante (Verona) – C. Lopez (Lecce) – E. Arbore (Trieste)

26th MAY – MORNING

08.30 - 10.50 SESSION 3


Lucent Study: how AI contributes to therapeutic and surgical planning

Chair: F. Venuta (Roma)

Moderators: A. Droghetti (Candiolo) – A. Gonfiotti (Florence)

Keynote lecture

08.30-08.55 **From Pixels to Scalpel: Integrating AI Across Thoracic Surgery and Pathology**

Speaker: S. Aguir – N. Piton 

Keynote lecture

08.55-09.20 **From Anatomy to Action: AI-Assisted Decision Pathways in Thoracic Oncology Surgery**

Speaker: A. Obeso – 

09.20-09.40 **AI and personalized surgical treatment: predictive analysis on real-world data**

Speaker: L. Bertolaccini (Milan)

09.40-10.00 **Thoracic surgery and AI: towards real-time intraoperative analysis**

Speaker: A. Bertani (Palermo)

10.00-10.20 **Air leaks and early discharge: can AI support postoperative decisions?**

Speaker: F. Zaraca (Bolzano)

10.20-10.50 **Discussion:** G.L. Pariscenti (Milan) – A. Denegri (Cuneo) – F. Guerrera (Torino)

10.50-11.20 COFFEE BREAK

11.20 - 13.50 SESSION 4

Precision medicine and personalized AI-supported follow-up

Chair: M. Nosotti (Milan)

Moderators: F. Puglisi (Aviano-Udine) – V. Gregorc (Candiolo) - P. Ermacora (Gorizia) - M. Lucchi (Pisa)

11.20-11.40 Terapie target nel NSCLC oncogene-addicted: AI per la selezione ottimale del paziente

Speaker: A. Bearz (Aviano)

11.40-12.00 NSCLC senza driver molecolari: AI e approcci agnostici personalizzati

Speaker: F. Grossi (Genoa)

12.00-12.20 Clinical efficacy data in tumors expressing RET, MET, KRAS, BRAF, ROS1, and NTRK

Speaker: G. Pelizzari (Udine)

12.20-12.40 Therapeutic options in NSCLC without targetable mutations: current opportunities

Speaker: A. Del Conte (Cittadella-Camposampiero)

12.40-13.00 Perioperative and neoadjuvant therapeutic strategies in NSCLC

Speaker: M. Tiseo (Parma)

13.00-13.20 AI-guided radiotherapy: dose personalization and response prediction

Speaker: A. Magli (Trieste)

13.20-13.50 Discussion: F. Cortiula (Udine) – M. Macerelli (Udine)

13.50 -14.00 CLOSING SESSION – Synthesis Session & GET TOGETHER

Conclusions and future perspectives

Final remarks by session Chairs

26th MAY – AFTERNOON

14.00 - 14.40 REGISTRATION

NURSING SESSION

14.40 - 16.40 AI and robotics in wards and operating rooms: what nurses expect

Chair: A. Zuin (Udine)

Moderators: M. Grassi (Trieste) – G.P. Dolci (Ferrara)

14.40-15.00 The use of Artificial Intelligence in the onboarding and training of nurses in Surgery

Speaker: N. Viti (Trieste)

15.00-15.20 VIBE Coding & Artificial Intelligence in Thoracic Surgery: the new language of the nursing team

Speaker: S. Grisan (Trieste)

15.20-15.40 The use of Artificial Intelligence in the monitoring and enhancement of nursing handovers

Speaker: G. Rodella (Novara)

15.40-16.00 Nursing ethics in the age of automation and AI: preserving the care relationship

Speaker: L. Serafini (Trieste)

16.00-16.20 Discussion: F.L. Barra (Novara) - K. Scala (Trieste)

16.20 - 16.30 CLOSING REMARKS

GENERAL INFORMATION

SCIENTIFIC COORDINATORS

Maurizio Cortale, Director, Department of Thoracic Surgery, Trieste

Alessandra Guglielmi, Head of SC Oncology, Department of Oncology, Trieste

LOCAL SCIENTIFIC AND ORGANIZING COMMITTEE

Enrico Arbore, Department of Thoracic Surgery, Trieste

Angela Dicorato, Department of Oncology, Trieste

Stefano Lovadina, Department of Thoracic Surgery, Trieste

Valentina Orlando, Department of Oncology, Trieste

OFFICIAL LANGUAGE

Italian

CONGRESS VENUE

Hotel Savoia

Riva del Mandracchio, Trieste

CME CREDITS

The LUCENT Congress is accredited for the following healthcare professionals:

For Medical Doctors (25 May – afternoon and 26 May – morning)

CME No.: 7194-479561 – Credits: 9

Disciplines: Oncology, Thoracic Surgery, Pathological Anatomy

For Nurses (26 May – afternoon)

CME No.: 7194-79568 – Credits: 2

Profession: Nurse

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